

# Georges Chebly

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## Summary

Ambitious junior student working to find an internship in robotics (software or hardware). Fast worker, detail oriented, capable of working in a fast-paced environment.

## Education

University of Massachusetts Amherst- Honors College

Anticipated May 2025

- BS Mechanical Engineering, Minor Computer Science, **GPA: 3.975**
- Dean's List & ISP scholar (International scholars' program)
- Chancellors Award Scholarship

## Skills & Certifications

ROS (Python), MATLAB, Java, C++, C, R, SolidWorks, AutoCAD, Microsoft Office Suite, 3D printing, International Computer Driving License (**ICDL**), Trilingual (Arabic, French, English)

## Coursework

Introduction to Problem Solving with Computers (Java), Computer Systems Principles (C), Data Structures, Statics, Thermodynamics, Material Science, Dynamics, Strength of Materials, Differential Equations, Intro to Electrical Engineering, Design of Mechanical components, Fluid Mechanics

## Work Experience

*Undergraduate Teaching Assistant- Statics and Dynamics*

Jan 2023-Present

- Holding office hours independent of class time for student support
- Proctoring exams and accommodating disabled students
- Correcting and grading homework assignments and providing feedback

*Software Robotics Intern - Open Avenues, Outrider Technologies*

Feb 2023-April 2023

- Created a ROS package for trailer ID detection using Linux
- Successfully developed Python/C++ code with industry best practices
- Autonomous robot to keep track for trailers in a simulated yard using GAZEBO

*Undergraduate Research Assistant- Human Magnetic Resonance Imaging (hMRI) Center*

Sept 2022 – Dec2022

- Working in biotech research specifying in brain stimulation
- Establishing SPI communication between master and slave
- Reading digital potentiometers ICs datasheets (MCP41HVX1, AD5160...)
- Ordering correct components depending on our research needs
- Programming in C++, analyzing results, and debugging accordingly
- Designing and building constant current regulator circuits using LTspice

*BMS/Scada Engineer – ITEC, Siemens Qatar Solution Partner*

May 2021-June 2021

- Development of PLC, SCADA/HMI programs to perform specific functions depending on the specific output using Siemens TIA V17 portal
- Conducted testing and commissioning of Automation System
- Conducted code offline testing prior to sites visits and client meetings
- Prepare the Bill of Material using Excel

## Projects/Extracurriculars

*UMASS Robotics Team*

Sept-Dec 2021

- Member of the depositor mechanical team, worked on the design using SolidWorks
- Decided on the type of elect. & mech. Components for the robot (Linear Actuators, conveyor belt...)

*Team Leader - 1<sup>st</sup> place in Botball Robotics Competition, Carnegie Mellon Qatar*

Feb 2020

- Built 2 robots using Legos, servos, motor & iRobot and set winning strategies
- Documented the process and presented strategic test plan for a panel of judges

## Activities & Interests

UMASS Robotics Team, Jiu-Jitsu, fitness, stocks & crypto, intramural soccer, piano